

Status of claims 1 - 20

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1. (currently amended) A system for monitoring and controlling water flow and consumption in a water-based system, wherein said water flows through a conduit from a water supply to at least one component in which water flow is an operating condition of said at least one said
- 5 component, said system comprising:
- at least one sensor for monitoring said water flow and consumption, including water temperature and water pressure, in said water-based system and for generating signals indicative of the operation thereof;
- 10 at least one interface module for receiving signals from said at least one sensor;
- at least one fluid control device operable with a said at least one interface module for ~~[limiting]~~ restricting the water flow and consumption in said water-based system when said water temperature or water
- 15 pressure exceeds a predetermined threshold level; and
- a power panel for receiving a processor and said at least one of said interface modules, said processor being in communication with at least one said interface module for interpreting signals from said sensor.

2. (canceled)

3.(previously amended) A system as recited in claim 1, wherein said at least one sensor comprises a fluid flow sensor to sense the water flow within a component of the water-based system.

4.(previously amended) A system as recited in claim 1, wherein said at least one sensor comprises a pressure sensor connected to sense the pressure inside a said component of said water-based system to generate an output signal when the sensor pressure exceeds a
5 predetermined threshold.

5.(previously amended) A system as recited in claim 1, wherein said at least one fluid control device comprises a valve in said water supply line.

6.(previously amended) A system as recited in claim 1, wherein said at least one interface module controls a said fluid control device for disconnecting a water or energy source from said water-based system.

7.(previously amended) A system as recited in claim 1, wherein the processor receives a signal from said at least one sensor, and in response thereto, communicates with said at least one interface module to close the valve in said water supply line.

8.(canceled)

9.(previously amended) A system as recited in claim 1, including a motherboard with a communication port enabling communications via said processor.

10.(previously amended) A system as recited in claim 9, wherein said motherboard includes an information port for establishing a computer network interface.

11.(previously amended) A system as recited in claim 10, wherein said at least one interface module is configured by a remote computer via said information port.

12.(previously amended) A system as recited in claim 11, wherein said at least one interface module is operable to configure an internet website.

13.(currently amended) A method for monitoring and controlling water flow and consumption in a water-based system, wherein said water flows through a conduit from a water supply to at least one component in which water flow is an operating condition of said at least one
5 component, said system comprising:

generating signals indicative of a water consumption parameter sensed from said water-based system, where said parameter is selected from the group consisting of water temperature and water pressure,

receiving the generated signals to monitor ~~[the water consumption]~~
10 said parameter;

operating a fluid control device for ~~[limiting]~~ restricting the water consumption in response to the received signal when said signal exceeds a predetermined threshold level; and

information processing of the received signal providing a

15 communication interface for interpreting signals.

14.(previously amended)) A method as recited in claim 13, wherein said water-based system resides in a residential structure requiring monitoring and control of the water flow and consumption thereof.

15.(previously amended) A method as recited in claim 13, wherein said water-based system is a tank-less toilet comprising measurement and control of the water metered through said tank-less toilet.

16.(currently amended) A system for monitoring and controlling water flow and consumption in a water-based system, wherein said water flows through a conduit from a water supply to at least one component in which water flow is an operating condition of said at least one said

5 component, said system comprising:

at least one sensor for monitoring a water parameter in said water-based system, where said parameter is selected from the group consisting of water temperature and water pressure;

a processor in communication with the at least one said sensor and for monitoring and controlling the water flow and consumption; and

10 a fluid control device operable with said processor for ~~[limiting]~~ restricting the consumption of water in the water-based system, when said parameter exceeds a predetermined threshold level.

17.(currently amended) The system as recited in claim 16,
wherein said processor is in a housing providing a circuit box for
receiving the at least one said sensor and receiver, each of the at least one
said sensor and receiver acting as a circuit breaker of the monitored
5 water-based system to protect from malfunction of said water-based
system.

18.(previously amended) A system as recited in claim 16, wherein
said processor is connected to a network bi-directional data
communications device.

19.(previously amended) A system as recited in claim 16, wherein
said processor is connected to a multi media interface for interactive
video communication, for identifying a location in which the monitored
water-based system operates.

20.(previously amended) A system as recited in claim 16,
including a motherboard for receiving said processor, the motherboard
having a connection for electronically communicating with one or more
processors on other motherboards.